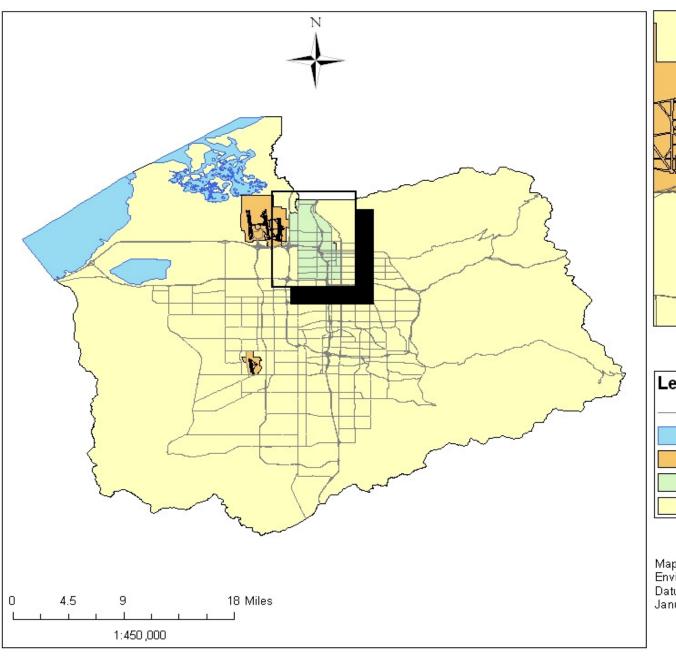
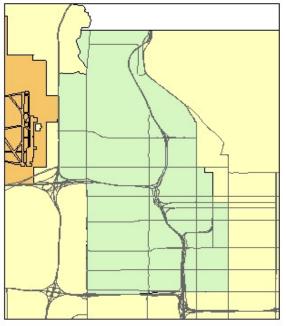
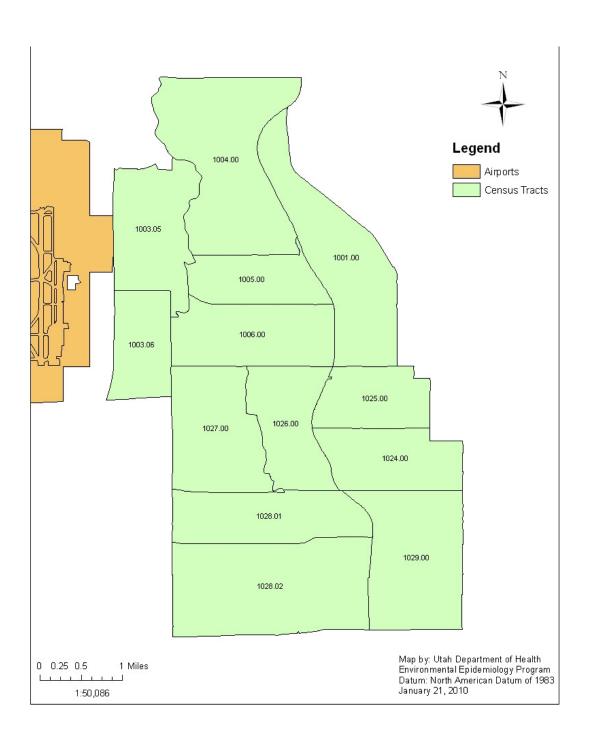
# An assessment of child health in West & Central City Salt Lake City

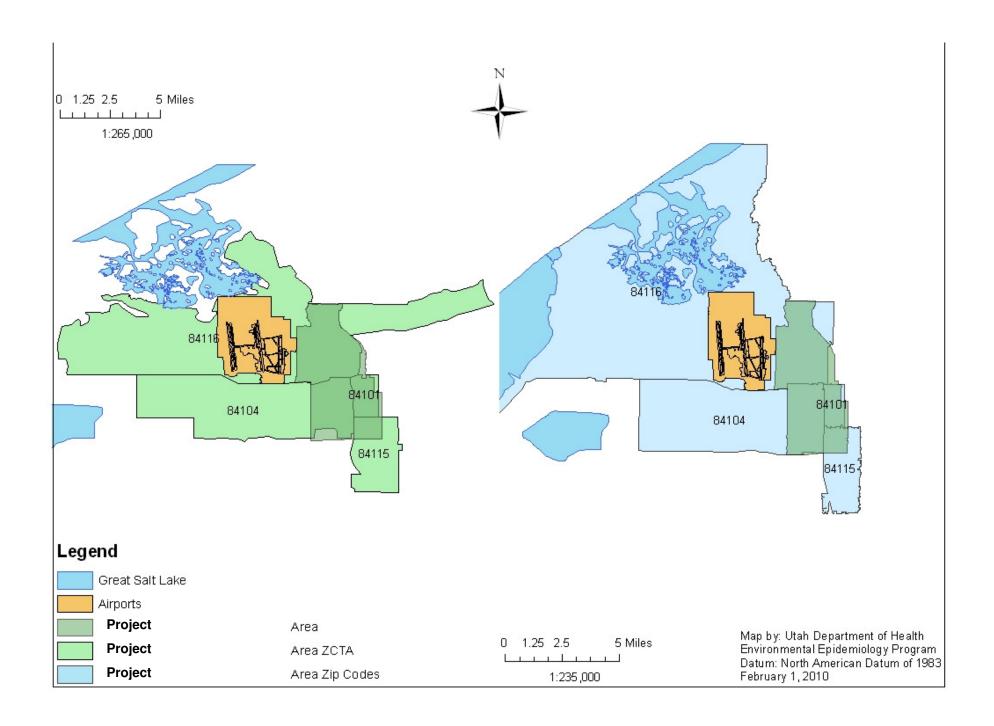






Map by: Utah Department of Health Environmental Epidemiology Program Datum: North American Datum of 1983 January 21, 2010

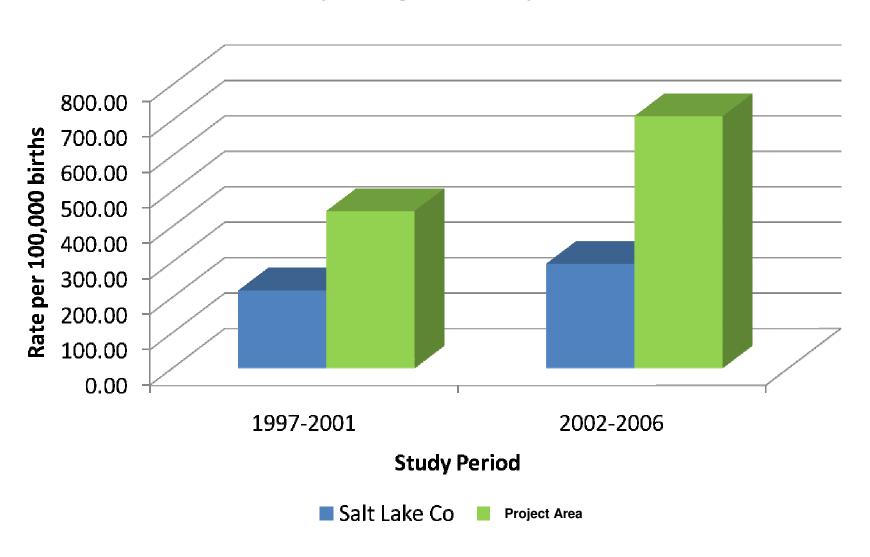




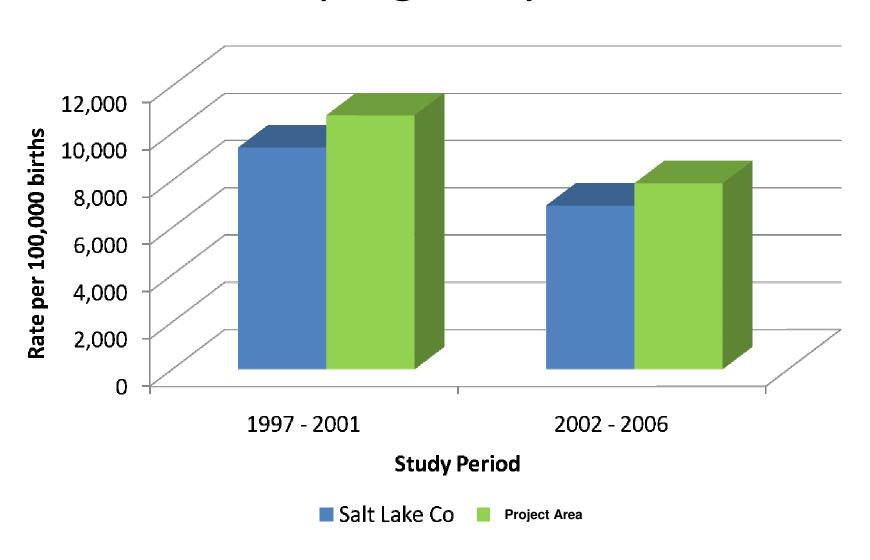
#### Risks noted on the birth record

- Maternal substance use during pregnancy
  - Drugs, alcohol, tobacco
- Maternal health issues during pregnancy
  - Anemia, hypertension, heart disease, diabetic, etc.
  - Incomplete cervix and other anatomical concerns
  - History of having problems during pregnancy
  - Blood type issues (Rh sensitivity)
  - Injuries
- Maternal infections during pregnancy
  - Rubella, herpes, meningitis, STDs, etc.

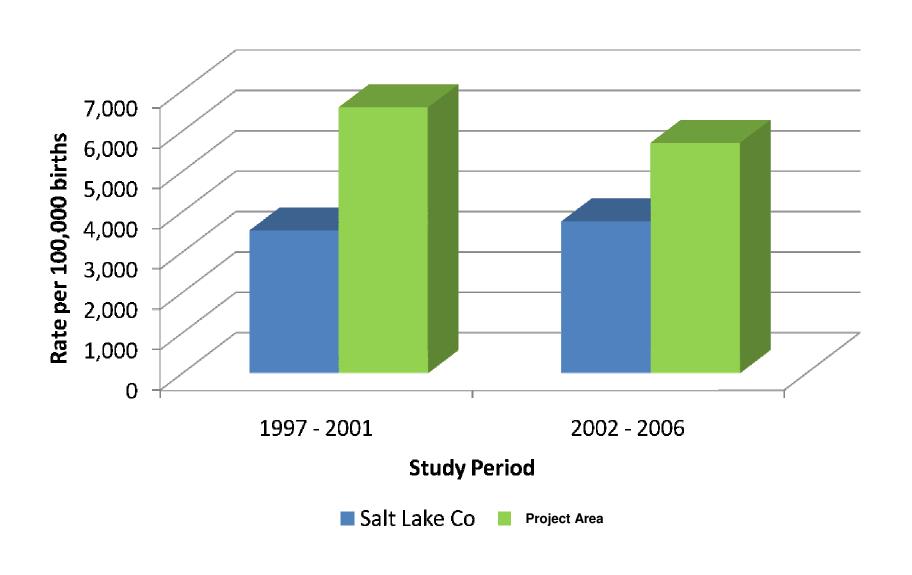
# Maternal substance abuse during pregnancy



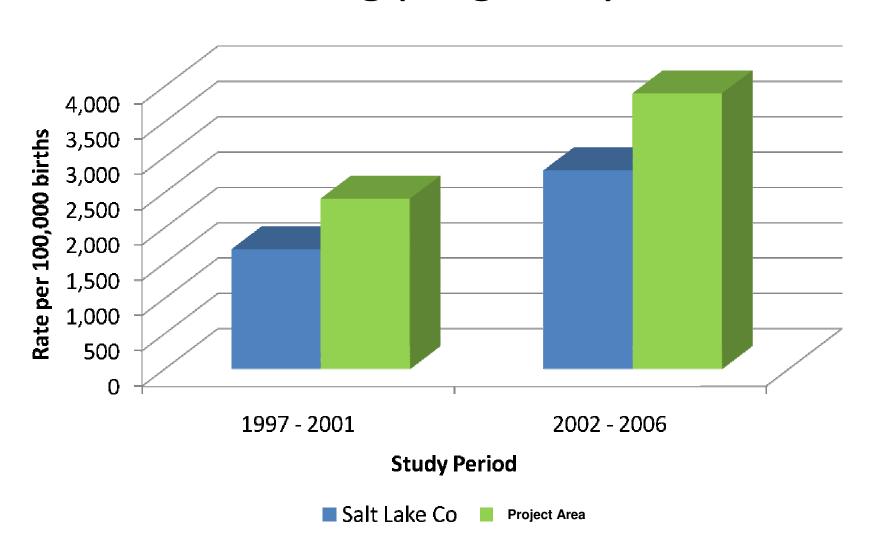
# Maternal tobacco use during pregnancy



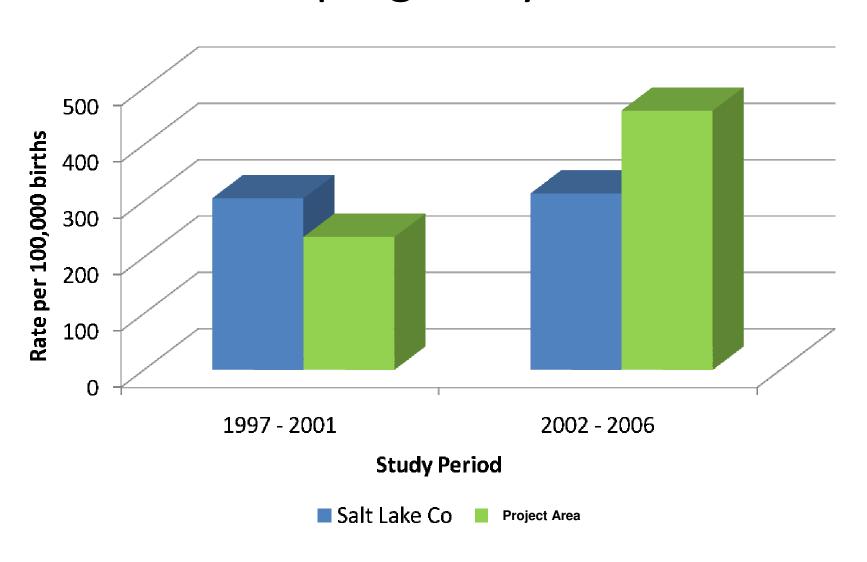
#### Maternal anemia during pregnancy



### Maternal develop gestational diabetes during pregnancy



## Maternal develop eclampsia during pregnancy



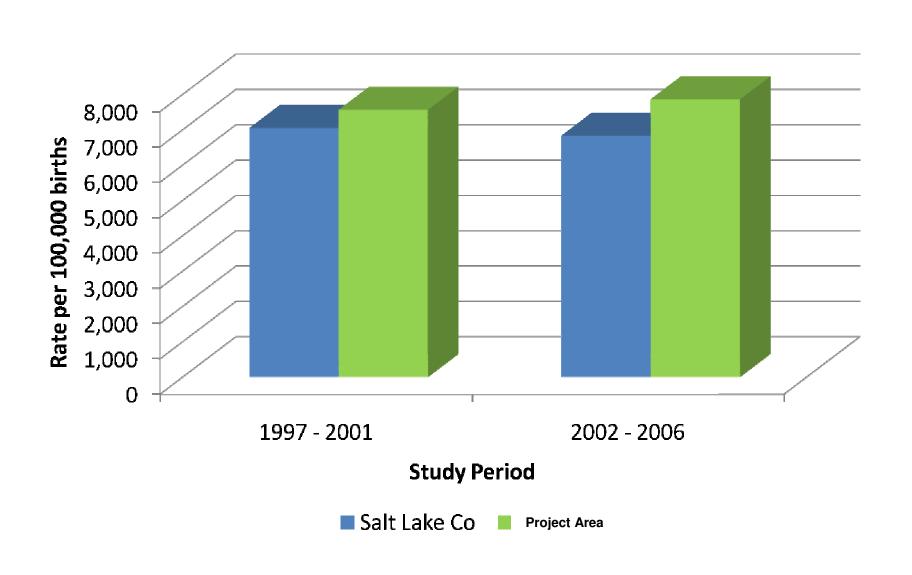
### Birth abnormalities and defects noted at delivery

- Only observable defects are noted
- Abnormalities:
  - anemia, need assistance to breath, low birth weight, preterm, seizures, infections, etc.

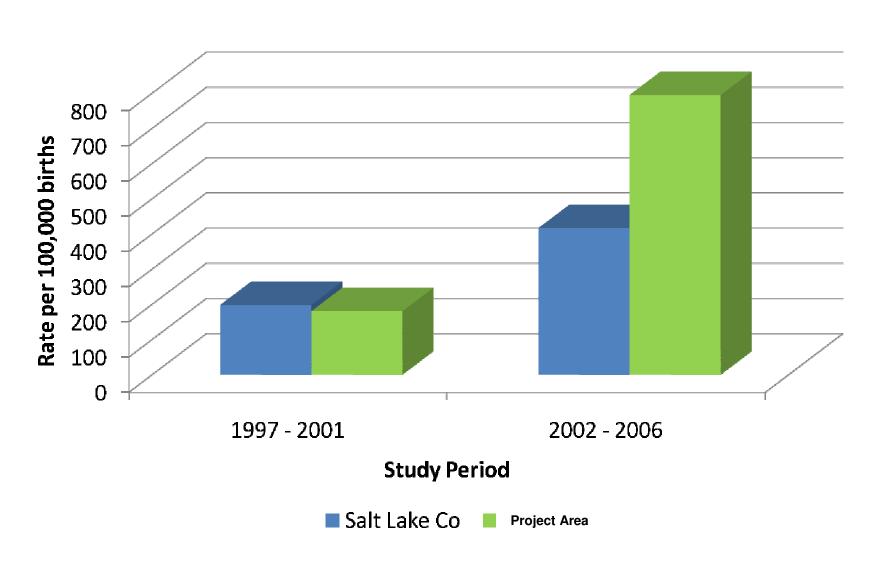
#### • Defects:

- Abnormal head (no head, tiny or incomplete, hydrocephaly, cleft lip/pallet, etc.)
- Abnormal appendages (club foot, extra or missing digits, malformed genitalia, etc.)
- Abnormal internal organs (heart, lungs, liver, gastrointestinal, central nervous system, bones and muscle, urinary, etc.)
- Developmental problems (Downs syndrome, fetal alcohol syndrome, etc.)

#### Low birth weight babies



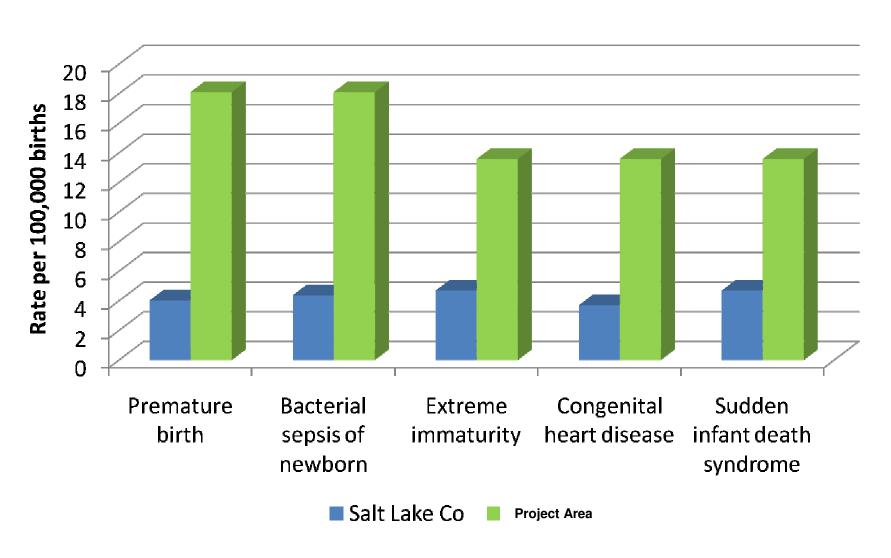
### Babies with muscle or skeletal abnormalities



#### Infant and child deaths

- Included children 0 to 18 years of age
- For 2003 through 2007
- Death record includes
  - Primary cause of death
  - Up to 9 contributing causes of death
- We looked at top 5 causes of infant and child death

### Leading causes of infant and child death (2003-2007)



#### Cancer Data

Cancer in children is very rare

 Examined 42 different major categories of childhood cancer

No significant increased rates of cancer found

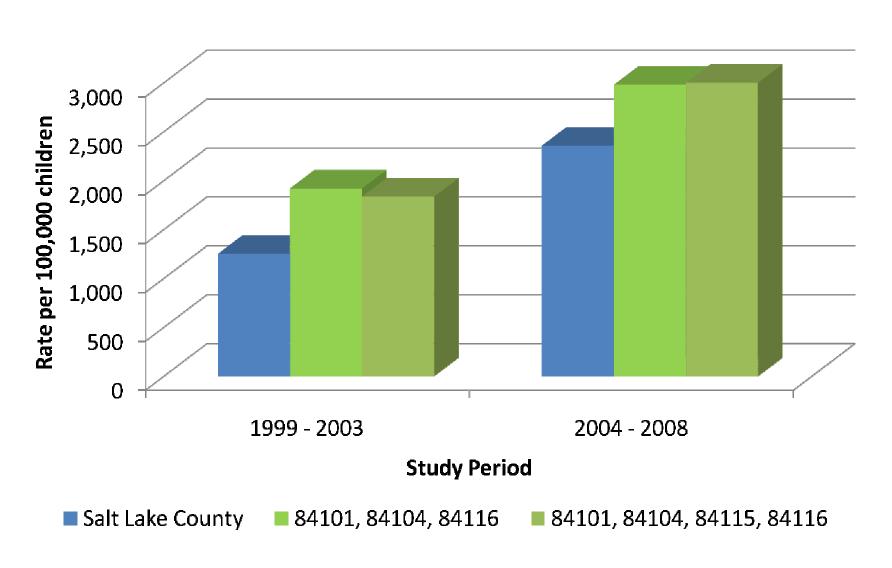
#### **Blood lead**

 Lead is a metal contaminate that can be absorbed in the blood.

 Lead causes a number of childhood health and developmental problems

 In Utah children with a blood lead level greater than 10 ug/dL of blood are considered to have elevated blood lead levels

### Children with elevated blood lead levels

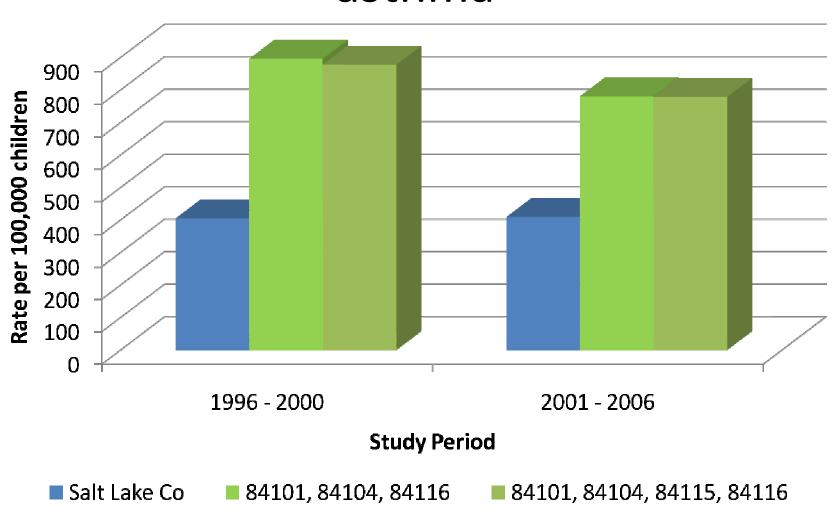


#### Hospital and Emergency Department Data

 Unintentional injuries are a leading cause of hospitalization or emergency department encounters of children

 Hospitalization and Emergency Department visits for unintentional injuries was not elevated

# Children hospitalized or visiting an emergency department because of asthma

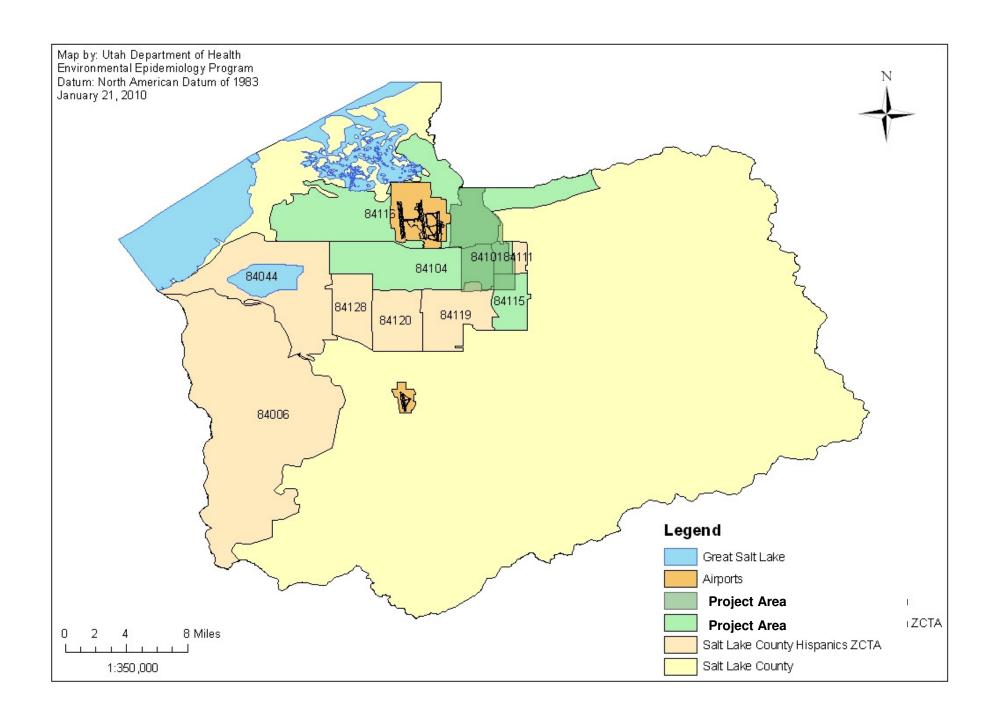


#### Conclusions

- The project area has a number of child health concerns:
  - Poor birth outcomes (preterm, low birth weight)
    - Maternal health and behavior
  - Asthma

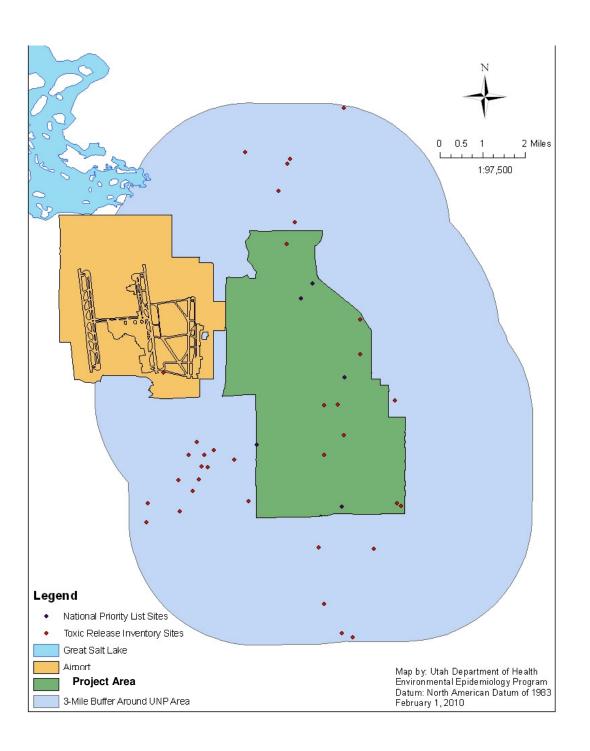
#### Similar populations

- These results look at the project area versus Salt Lake County
- We also looked at the project area versus the State of Utah
   And
- The project area versus an area of Salt Lake County with similar demographics as the project area
- The interpretation remains the same



#### **Environmental Risks**

- Site specific
  - National Priority List (NPL or Superfund) sites
  - Toxic Release Inventory sites
- Ambient condition
  - Air pollution
  - Healthy homes



# Top 5 air pollutants (National Air Toxics Assessment)

